

Certificate of Analysis

Standard Reference Material 1105

Free-Cutting Brass

Percent
63.7
34.0
2.0
0.21
.044
.043
.003

Sample Condition: The sample is supplied in the form of disks 1¼ in. in diameter and ¾ in. thick. The material was prepared by hot-extrusion of cast material, since suitable wrought material could not be prepared by forging. Microscopic examination revealed mixed grain size with some nonworked areas; the samples are not entirely metallurgically uniform.

Homogenety. Lead was found to be segregated in the alloy, with deviations of \pm 0.1 percent from the average value. Because of the nonuniform metallurgical condition, deviations somewhat larger than normal may be encountered in the intended use. This sample will only be issued with a provisional certificate.

Intended Use: The sample is one of three compositions in a graded series for freecutting brass in wrought and cast form for application in optical emission and x-ray spectroscopic analysis.